

Special Issue

Bionic Design and Control of Underwater Robots

Message from the Guest Editor

Over millions of years, evolution has shaped aquatic organisms and achieved highly adaptive behaviors and efficient locomotion. Their agile swimming abilities offer valuable inspiration for improving the performance of underwater robots. Bionic underwater robots are an interdisciplinary fusion of biomimetics, fluid dynamics, mechanics, electronics, control, and computing, with research covering bioinspired propulsion principles, prototype design and optimization, actuation methods, motion control, multisensory information processing, autonomous navigation, practical applications, and so on. Advances in this field are driving the development of more practical, efficient, and flexible propulsion and control mechanisms for underwater robotic systems. This Special Issue aims to gather the latest contributions in the design and control of bionic underwater robots. Researchers are welcome to submit original contributions that review and investigate the latest developments and challenges in the field of bionic underwater robotics.

Guest Editor

Dr. Jincun Liu

College of Information and Electrical Engineering, China Agricultural University, Beijing, China

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Editorial Office

MDPI, Grosspeteranlage 5

4052 Basel, Switzerland

Tel: +41 61 683 77 34

jmse@mdpi.com

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About the Journal

Message from the Editor-in-Chief

Journal of Marine Science and Engineering (JMSE, ISSN: 2077-1312) focuses on research in the fields of Ocean Engineering, Coastal Engineering, Physical Oceanography, Geological Oceanography, Marine Biology, and Marine Environmental Science. It publishes reviews, regular research papers, and short communications, as well as Special Issues on particular subjects. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the maximum length of the papers.

Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi

School of Engineering, The UWA Oceans Institute, The University of Western Australia, Perth, WA 6009, Australia

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